

Title (en)

ARTICLES OF CLOTHING AND PERSONAL GEAR WITH ON- DEMAND POWER SUPPLY FOR ELECTRICAL DEVICES

Title (de)

BEKLEIDUNGSARTIKEL UND PERSÖNLICHE SACHEN MIT BEDARFSGESTEUERTER STROMVERSORGUNG FÜR ELEKTRISCHE EINRICHTUNGEN

Title (fr)

ARTICLES VESTIMENTAIRES ET EQUIPEMENT PERSONNEL AVEC ALIMENTATION A LA DEMANDE POUR DISPOSITIFS ELECTRIQUES

Publication

**EP 1756903 A4 20090401 (EN)**

Application

**EP 05745146 A 20050506**

Priority

- US 2005016256 W 20050506
- US 56934004 P 20040507

Abstract (en)

[origin: US2005255349A1] An article of clothing with an on-demand power supply for electrical devices is provided. The power supply includes stiff planar fuel cell devices that are distributed in a plane. The number of fuel cells is dependent on the power requirements for the electrical devices. The planar stiff fuel cells are flexibly interconnected in the plane by a flexible interconnecting means, which allows the fuel cells to move with respect to each other out of the plane. This further allows the power supply to be nicely integrated in an article of clothing and minimizes negative impact to a body region or to the article of clothing. The electrical and fuel connections between the fuel cells are integrated with the flexible interconnecting means. To further integrate and increase ease of operation a control system is included to control the on-demand power supply or control power levels for the electrical device.

IPC 8 full level

**H01M 8/00** (2006.01); **A61F 7/00** (2006.01); **A61F 7/02** (2006.01); **A61F 7/03** (2006.01); **A61F 7/12** (2006.01); **H01M 8/10** (2006.01); **H01M 8/24** (2006.01)

CPC (source: EP US)

**A61F 7/007** (2013.01 - EP US); **A61F 7/03** (2013.01 - EP US); **H01M 8/006** (2013.01 - EP US); **H01M 8/2404** (2016.02 - EP); **H01M 8/241** (2013.01 - EP); **H01M 8/2475** (2013.01 - EP US); **H01M 8/2483** (2016.02 - EP US); **H01M 8/249** (2013.01 - EP US); **A61F 2007/0001** (2013.01 - EP US); **A61F 2007/0094** (2013.01 - EP US); **A61F 2007/0233** (2013.01 - EP US); **H01M 2250/30** (2013.01 - EP US); **Y02B 90/10** (2013.01 - EP US); **Y02E 60/50** (2013.01 - EP); **Y10S 2/905** (2013.01 - US)

Citation (search report)

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Designated contracting state (EPC)

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DOCDB simple family (publication)

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DOCDB simple family (application)

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